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... the received signal, wherein one demodulation mode is a hierarchical demodulation mode and another demodulation mode is a layered demodulation mode. ...

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Digital radio communication system for communicating M-ary ...

M. Uesugi, et al.; "A Layered Demodulation Scheme for Adaptive it is possible to use the hierarchical demodulation shown in Japanese Patent ...

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... a number of demodulation modes, where at least two of the demodulation modes represent a hierarchical demodulation mode and a layered demodulation mode. ...
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... multi-level signal, wherein at least two of the number of demodulation modes are a hierarchical demodulation mode and a layered demodulation mode. ...
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A UNIFIED RECEIVER FOR LAYERED AND HIERARCHICAL MODULATION SYSTEMS

Publication number: EP1625686

Publication date: 2006-02-15

Inventor: KOSLOV JOSHUA (US); RAMASWAMY KUMAR (US)

Applicant: THOMSON LICENSING (FR)

Classification:

- international: H04L27/00; H04L27/34; H04L27/38; H04L27/00;
H04L27/34; H04L27/38; (IPC1-7): H04L5/04;
H04L27/34; H04L27/38

- European: H04L27/00F; H04L27/34M; H04L27/38

Application number: EP20040751223 20040424

Priority number(s): WO2004US13734 20040424; US20030471167P
20030516

Also published as:

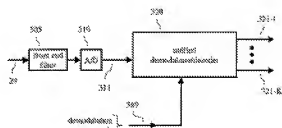
WO2004105302 (A1)
KR20060021312 (A)
EP1625686 (A0)
CN1792057 (A)

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Abstract not available for EP1625686

Abstract of corresponding document: WO2004105302

A satellite receiver includes a down converter for providing a received signal and a demodulator having at least two demodulation modes for demodulating the received signal, wherein one demodulation mode is hierarchical demodulation and another demodulation mode is layered demodulation.



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The device provides two demodulation modes, and can receive signals at multiple carrier frequencies and bit transmission rates. The device can be integrated ...
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1. On enhancing hierarchical modulation
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PUBLICATION, Feb 2007

patno:US20070025283

...represent a hierarchical demodulation mode and a layered d
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demodulation mode, unified...set in the layered demodulation
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AND TRADEMARK OFFICE GRANTED PATENT, Aug 2008
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...conventional hierarchical modulation. Layered demodulation fi
layer...input signal 202. Current work in hierarchical demodulati
this application...The application of conventional hierarchical dem
result in excessive...
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CHEN, Ernest C. / SANTORU, Joseph (THE DIRECTV GROUP,
COOPERATION TREATY APPLICATION, Jan 2004
patno:WO04004193
...turbo code. -3 [0010] The application of conventional hierarchic
techniques can result in excessive symbol errors in...Figure 1B for
modulation. Layered demodulation first FEC-decodes the upper l
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Chen, Ernest C / Santoru, Joseph, *UNITED STATES PATENT AN
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patno:US20060056541
...conventional hierarchical modulation. Layered demodulation fi
layer...input signal 202. Current work in hierarchical demodulati
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KOSLOV, Joshua / RAMASWAMY, Kumar (THOMSON LICENSING S.A.), *COOPERATION TREATY APPLICATION*, Dec 2004
patno: WO04105302
...Invention, a receiver includes a down converter for providing a received signal to a demodulator having at least two demodulation modes for demodulating the signal wherein one demodulation mode is a hierarchical demodulation mode. Full text available at patent office. For more in-depth search [similar results](#)
- ☐ 2. **Unified receiver for layered and hierarchical modulation systems**
Koslov, Joshua Lawrence / Ramaswamy, Kumar, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Jan 2007
patno: US20070011716
A satellite receiver includes a down converter for providing a received signal to a demodulator having at least two demodulation modes for demodulating the signal wherein one demodulation mode is hierarchical demodulation and another is a non-hierarchical demodulation mode. Full text available at patent office. For more in-depth search [similar results](#)
- ☐ 3. **REPETITION CODING IN A SATELLITE-BASED COMMUNICATIONS SYSTEM**
KOSLOV, Joshua (THOMSON LICENSING S.A.), *PATENT COOPERATION TREATY APPLICATION*, Dec 2004
patno: WO04105337
A satellite communications system comprises a transmitter, a satellite receiver. The transmitter transmits an uplink multi-level modulated signal (e.g., orthogonal frequency division modulation or layered modulation) to the satellite transponder, which then transmits the signal to a ground station. Full text available at patent office. For more in-depth search [similar results](#)
- ☐ 4. **Automatic gain control adaptive for plural modulation schemes**
Yamauchi, Shigeki (Oki Electric Industry Co., Ltd.), *UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT*, Jun 2008
patno: US7386285
An AGC circuit controls LNA and VGA amplifiers such that a received signal is amplified with high speed with tracking errors prevented according to each modulation scheme. The circuit generates LNA and VGA control signals controlling the LNA and VGA amplifiers. Full text available at patent office. For more in-depth search [similar results](#)
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- ☐ 6. **Repetition coding in a satellite-based communications system**
Koslov, Joshua Lawrence, *UNITED STATES PATENT AND TRADEMARK OFFICE PUBLICATION*, Feb 2007
patno: US20070025283
A satellite communications system comprises a transmitter, a satellite receiver. The transmitter transmits an uplink multi-level modulated signal to a satellite transponder, which then transmits the signal to a ground station. Full text available at patent office. For more in-depth search [similar results](#)

modulation or layered modulation) to the satellite transponder, wh
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Yamauchi, Shigeki (Oki Electric Industry Co., Ltd.), *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Apr 2006
patno:US20060077080
An AGC circuit controls LNA and VGA amplifiers such that a receive high speed with tracking errors prevented according to each modulation circuit generates LNA and VGA control signals controlling the LNA and VGA.
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...Description The NKD1000RX receiver is a flexible general purpose receiver. The device provides two demodulation modes, and can receive different frequencies and bit transmission rates. The device can be integrated with a microcontroller.
[http://www.ee.ualberta.ca/~elliott/ee552/projects/1999...]
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- ☐ 9. Broadcasting signal receiver apparatus provided with controller for modulation mode, and apparatus for controlling demodulation mode
Hayashi, Yoshikazu, *UNITED STATES PATENT AND TRADEMARK OFFICE PUBLICATION*, Jan 2005
patno:US20050010945
...modulation rates such as symbol rates or the like) and various other parameters can be used. Further, only two demodulation modes are described in the table shown in FIG. 3. Alternatively, the constellation of the modulation mode can be changed.
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Kim, In-Kyung / Sung, Wonjin (Hughes Electronics Corporation), *UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT*, Nov 2000
patno:US6151487
A demodulator and demodulating technique is provided which automatically adapts to the flat-fading or multipath channel status of an incoming signal has delay spread in addition to fading a standard Maximum Likelihood Estimation (MLE) algorithm.
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Application Number: 10/556544

Assignments

Filing or 371(c) Date: 11/14/2005 eDan

Effective Date: 11/14/2005

Application Received: 11/14/2005

Pat. Num./Pub. Num: /20070011716

Issue Date: 00/00/0000

Date of Abandonment: 00/00/0000

Attorney Docket Number: PU030154

Status: 30 /DOCKETED NEW CASE - READY FOR EXAMINATION Status Date: 12/15/2006

Confirmation Number: 3313

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Inventor Information for 10/556544

Inventor Name	City	State/Country
KOSLOV, JOSHUA LAWRENCE	HOPEWELL	NEW JERSEY
RAMASWAMY, KUMAR	PRINCETON	NEW JERSEY

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Your Search was:

Last Name = KOSLOV

First Name = JOSHUA

Application#	Patent#	Status	Date Filed	Title	Inventor Name
07205403	4845562	150	06/10/1988	WIDESCREEN TELEVISION RECEPTION AND RECORDING SYSTEM UTILIZING CONVENTIONAL EQUIPMENT	KOSLOV, JOSHUA L.
09484645	6236283	150	01/18/2000	Methods And Apparatus For Generating A Filtered Signal Having A Fixed Sampling Rate From A Variable Baud Rate Input Data Stream	KOSLOV, JOSHUA L.
09886590	Not Issued	161	06/21/2001	Methods and apparatus for smoothing the data rate of a digital data stream	KOSLOV, JOSHUA L.
09886591	7127019	150	06/21/2001	METHODS AND APPARATUS FOR IMPLEMENTING MULTI-TONE RECEIVERS	KOSLOV, JOSHUA L.
06444357	4488178	150	11/24/1982	CCD DEFECT CORRECTION WITHOUT DEFECT LOCATION MEMORY	KOSLOV, JOSHUA L.
07404023	4992873	150	09/07/1989	VIDEO SIGNAL NOISE REDUCTION APPARATUS USING AMPLITUDE COMPANDING AND PREDICTIVE SIGNAL PROCESSING TECHNIQUES	KOSLOV, JOSHUA L.
07416695	5005082	150	10/03/1989	A VIDEO SIGNAL COMPANDER ADAPTIVELY RESPONSIVE TO PREDICTIONS OF THE VIDEO SIGNAL PROCESSED	KOSLOV, JOSHUA L.
07472554	Not Issued	161	01/30/1990	VIDEO SIGNAL TIME COMPRESSION/EXPANSION APPARATUS	KOSLOV, JOSHUA L.
07509384	5053858	150	04/16/1990	CHROMINANCE SIGNAL PROCESSING APPARATUS FOR WIDESCREEN TELEVISION	KOSLOV, JOSHUA L.

				SYSTEM	
07604536	5121204	150	10/29/1990	APPARATUS FOR SCRAMBLING SIDE PANEL-INFORMATION OF A WIDE ASPECT RATIO IMAGE SIGNAL	KOSLOV, JOSHUA L.
08109742	5471508	250	08/20/1993	CARRIER RECOVERY SYSTEM USING ACQUISITION AND TRACKING MODES AND AUTOMATIC CARRIER-TO-NOISE ESTIMATION	KOSLOV, JOSHUA L.
08303307	5673293	250	09/08/1994	METHOD AND APPARATUS FOR DEMODULATING QAM AND VSB SIGNALS	KOSLOV, JOSHUA L.
08397441	5648923	250	03/02/1995	NYQUIST FILTER FOR USE IN A JOINT VSB/QAM DEMODULATOR	KOSLOV, JOSHUA L.
08505056	5867539	150	07/21/1995	METHODS AND APPARATUS FOR REDUCING THE EFFECT OF IMPULSE NOISE ON RECEIVERS	KOSLOV, JOSHUA L.
08554696	5692013	250	11/07/1995	SHARED RESOURCES MODULATOR-DEMODULATOR CIRCUITS FOR USE WITH QUADRATURE AMPLITUDE MODULATED SIGNALS	KOSLOV, JOSHUA L.
08789437	5978823	250	01/27/1997	METHODS AND APPARATUS FOR IMPLEMENTING AND CONTROLLING A DIGITAL MODULATOR	KOSLOV, JOSHUA L.
08789439	5783974	150	01/27/1997	DIGITAL INTERPOLATION UP SAMPLING CIRCUIT AND DIGITAL MODULATOR USING SAME	KOSLOV, JOSHUA L.
08807565	5940450	250	02/28/1997	CARRIER RECOVERY METHOD AND APPARATUS	KOSLOV, JOSHUA L.
09135182	6253347	250	08/17/1998	AUTOMATIC SYNCHRONIZATION CIRCUIT FOR TRELLIS DECODER	KOSLOV, JOSHUA L.
09200083	6052701	250	11/25/1998	METHODS OF PERFORMING INTERPOLATION USING FREQUENCY SHIFTING OPERATIONS AND FILTERS	KOSLOV, JOSHUA L.
09200084	5978420	150	11/25/1998	METHODS AND APPARATUS FOR IMPLEMENTING AND CONTROLLING A DIGITAL MODULATOR	KOSLOV, JOSHUA L.

09419265	6668029	250	10/15/1999	METHODS AND APPARATUS FOR IMPLEMENTING DIGITAL RESAMPLING CIRCUITS	KOSLOV, JOSHUA L.
60064308	Not Issued	159	11/05/1997	AUTOMATIC SYNCHRONIZATION CIRCUIT FOR TRELLIS DECODER	KOSLOV, JOSHUA L.
60112029	Not Issued	159	12/11/1998	METHODS AND APPARATUS FOR IMPLEMENTING A DIGITAL RESAMPLING	KOSLOV, JOSHUA L.
60128312	Not Issued	159	04/08/1999	METHODS AND APPARATUS FOR GENERATING A FILTERED SIGNAL HAVING A FIXED SAMPLING RATE FROM A VARIABLE BAUD RATE INPUT DATA STREAM	KOSLOV, JOSHUA L.
10554580	Not Issued	93	10/27/2005	ADAPTIVE SOFT DEMODULATION FOR RECEPTION OF DISTORTED SIGNALS	KOSLOV, JOSHUA LAWRENCE
10554936	Not Issued	30	10/31/2005	Method and apparatus for synchronizing a multi-level modulation signal	KOSLOV, JOSHUA LAWRENCE
10555617	Not Issued	30	11/04/2005	Apparatus and method for decoding in a hierarchical, modulation system	KOSLOV, JOSHUA LAWRENCE
10556544	Not Issued	30	11/14/2005	Unified receiver for layered and hierarchical modulation systems	KOSLOV, JOSHUA LAWRENCE
10565447	Not Issued	30	01/20/2006	Frame synchronization using soft decisions in a universal mobile telephone system receiver	KOSLOV, JOSHUA LAWRENCE
10566877	Not Issued	30	02/02/2006	Adaptive Frame Synchronization in a Universal Mobile Telephone System Receiver	KOSLOV, JOSHUA LAWRENCE
10567946	Not Issued	30	02/10/2006	Methods and Apparatus For Hierarchical Modulation Using Radial Constellation	KOSLOV, JOSHUA LAWRENCE
10589764	Not Issued	30	08/17/2006	Method and Apparatus for Carrier Recovery in a Communications System	KOSLOV, JOSHUA LAWRENCE
11632136	Not Issued	30	01/10/2007	System and Method for Improved Carrier Recovery	KOSLOV, JOSHUA LAWRENCE
11667783	Not Issued	30	05/15/2007	Method and Apparatus for Carrier Recovery Using Multiple Sources	KOSLOV, JOSHUA LAWRENCE

11667791	Not Issued	20	05/15/2007	Method and Apparatus For Carrier Recovery Using Multiple Sources	KOSLOV, JOSHUA LAWRENCE
12087817	Not Issued	19	01/01/0001	Apparatus and Method For Generating Scrambling Codes	KOSLOV, JOSHUA LAWRENCE
60467946	Not Issued	159	05/05/2003	Advanced modulation, pre-compensation and coding schemes for hierarchical modulation systems	KOSLOV, JOSHUA LAWRENCE
60471166	Not Issued	159	05/16/2003	Coding scheme in hierarchical or layered modulations using repetition codes to derive additional operational symbol rates	KOSLOV, JOSHUA LAWRENCE
60471167	Not Issued	159	05/16/2003	Unified receivers for layered and hierarchical modulation	KOSLOV, JOSHUA LAWRENCE
60496470	Not Issued	159	08/20/2003	Methods and apparatus for hierarchical modulations with radial constellation	KOSLOV, JOSHUA LAWRENCE
60733713	Not Issued	159	11/04/2005	Apparatus and method for sensing ATSC signal in low signal-to-noise ratio	KOSLOV, JOSHUA LAWRENCE
60774126	Not Issued	159	02/16/2006	Apparatus and method for detecting ATSC signal in low signal-to-noise ratio	KOSLOV, JOSHUA LAWRENCE
60799150	Not Issued	159	05/10/2006	Vestigial sideband (VSB) protocol for mobile reception	KOSLOV, JOSHUA LAWRENCE
60799625	Not Issued	159	05/11/2006	Protocol for mobile reception and other environments	KOSLOV, JOSHUA LAWRENCE
60817438	Not Issued	159	06/29/2006	Scheme for broadcast and multi-access channels with multiple antenna and finite rate feedback	KOSLOV, JOSHUA LAWRENCE
61041235	Not Issued	20	03/31/2008	TILE PROCESSING IN WIRELESS COMMUNICATIONS	KOSLOV, JOSHUA LAWRENCE
61041293	Not Issued	20	04/01/2008	TILE AND ASSIGNMENT PROCESSING	KOSLOV, JOSHUA LAWRENCE
10556538	Not Issued	30	11/14/2005	Repetition coding in a satellite-based communications system	KOSLOV, JOSHUA LAWRENCE

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Inventor Name Search Result

Your Search was:

Last Name = RAMASWAMY

First Name = KUMAR

Application#	Patent#	Status	Date Filed	Title	Inventor Name
08342280	5497401	150	11/18/1994	BRANCH METRIC COMPUTER FOR A VITERBI DECODER OF A PUNCTURED AND PRAGMATIC TRELLIS CODE CONVOLUTIONAL DECODER SUITABLE FOR USE IN A MULTI-CHANNEL RECEIVER OF SATELLITE, TERRESTRIAL AND CABLE TRANSMITTED FEC COMPRESSED-DIGITAL TELEVISION DATA	RAMASWAMY, KUMAR
08528370	5740203	150	09/14/1995	TRELLIS DEMAPPER OF A CONVOLUTIONAL DECODER FOR DECODING PRAGMATIC TRELLIS CODES SUITABLE FOR USE IN A MULTI-CHANNEL RECEIVER OF SATELLITE, TERRESTRIAL AND CABLE TRANSMITTED FEC COMPRESSED-DIGITAL TELEVISION DATA	RAMASWAMY, KUMAR
08655269	5712873	150	06/04/1996	MULTI-MODE EQUALIZER IN A DIGITAL VIDEO SIGNAL PROCESSING SYSTEM	RAMASWAMY, KUMAR
08721778	Not Issued	161	09/25/1996	OSCILLATION NETWORK IN A DIGITAL TIMING RECOVERY SYSTEM	RAMASWAMY, KUMAR
08721779	Not Issued	161	09/25/1996	FILTER IN A DIGITAL TIMING RECOVERY SYSTEM	RAMASWAMY, KUMAR
08721780	5943369	150	09/25/1996	TIMING RECOVERY	RAMASWAMY,

				SYSTEM FOR A DIGITAL SIGNAL PROCESSOR	KUMAR
08734555	Not Issued	161	02/28/1997	VOLTAGE CONTROLLED OSCILLATOR WITH MULTIPLIER AND DUTY CYCLE CORRECTIONS	RAMASWAMY, KUMAR
08805198	5930309	150	02/27/1997	RECEIVER SIGNAL PROCESSING SYSTEM FOR CAP SIGNALS	RAMASWAMY, KUMAR
08818590	5946045	150	03/18/1997	SYSTEM FOR FORMING PROGRAM GUIDES AND VIDEO DATA FOR STORAGE AND TRANSMISSION IN DIFFERENT CODING FORMATS	RAMASWAMY, KUMAR
08818591	6366326	150	03/18/1997	SYSTEM FOR ACQUIRING, PROCESSING, AND STORING VIDEO DATA AND PROGRAM GUIDES TRANSMITTED IN DIFFERENT CODING FORMATS	RAMASWAMY, KUMAR
08818592	5946052	150	03/18/1997	SYSTEM FOR ACQUIRING AND PROCESSING VIDEO DATA AND PROGRAM GUIDES TRANSMITTED IN DIFFERENT CODING FORMATS	RAMASWAMY, KUMAR
08835915	5878088	150	04/10/1997	DIGITAL VARIABLE SYMBOL TIMING RECOVERY SYSTEM FOR QAM	RAMASWAMY, KUMAR
08884947	5966412	150	06/30/1997	APPARATUS AND METHOD FOR PROCESSING A QUADRATURE AMPLITUDE MODULATED (QAM) SIGNAL	RAMASWAMY, KUMAR
08884948	Not Issued	161	06/30/1997	CODING A MULTILEVEL SIGNAL CONSTELLATION FOR TRANSMISSION IN A DIGITAL COMMUNICATION CHANNEL	RAMASWAMY, KUMAR
08942380	Not Issued	161	10/01/1997	APPARATUS AND METHOD FOR ALIGNING TRELLIS DEMAPPED DATA	RAMASWAMY, KUMAR
09102885	6816548	150	06/23/1998	HDTV CHANNEL EQUALIZER	RAMASWAMY, KUMAR

09176182	6590872	150	10/21/1998	RECEIVER WITH PARALLEL CORRELATOR FOR ACQUISITION OF SPREAD SPECTRUM DIGITAL TRANSMISSION	RAMASWAMY, KUMAR
09176540	6563862	150	10/21/1998	DIGITAL VARIABLE SYMBOL RATE MODULATION	RAMASWAMY, KUMAR
09187318	6788710	150	11/06/1998	AUXILIARY DATA INSERTION IN A TRANSPORT DATASTREAM	RAMASWAMY, KUMAR
09193205	6272136	150	11/16/1998	PSEUDO-INTERFACE BETWEEN CONTROL AND SWITCHING MODULES OF A DATA PACKET SWITCHING AND LOAD BALANCING SYSTEM	RAMASWAMY, KUMAR
09193645	6272522	150	11/17/1998	COMPUTER DATA PACKET SWITCHING AND LOAD BALANCING SYSTEM USING A GENERAL-PURPOSE MULTIPROCESSOR ARCHITECTURE	RAMASWAMY, KUMAR
09193651	6510164	150	11/16/1998	USER-LEVEL DEDICATED INTERFACE FOR IP APPLICATIONS IN A DATA PACKET SWITCHING AND LOAD BALANCING SYSTEM	RAMASWAMY, KUMAR
09193652	6424621	150	11/17/1998	SOFTWARE INTERFACE BETWEEN SWITCHING MODULE AND OPERATING SYSTEM OF A DATA PACKET SWITCHING AND LOAD BALANCING SYSTEM	RAMASWAMY, KUMAR
09222389	6470005	150	12/29/1998	TRANSCEIVER PREROTATION BASED ON CARRIER OFFSET	RAMASWAMY, KUMAR
09222465	6370160	150	12/29/1998	BASE TO HANDSET EPOCH SYNCHRONIZATION IN MULTI-LINE WIRELESS TELEPHONE	RAMASWAMY, KUMAR
09222506	6434365	150	12/29/1998	PROVIDING INITIAL POWER ESTIMATE TO WIRELESS TELEPHONE HANDSETS	RAMASWAMY, KUMAR

09391059	7263141	150	09/07/1999	CODE MAPPING IN A TRELLIS DECODER	RAMASWAMY, KUMAR
09396228	6888840	150	09/15/1999	OUTPUT SYMBOL RATE CONTROL IN A PACKET TRANSPORT RATE CONVERSION SYSTEM.	RAMASWAMY, KUMAR
09396229	6747983	150	09/15/1999	TRANSPORT PACKET RATE CONVERSION	RAMASWAMY, KUMAR
09423868	6597750	150	11/15/1999	OPPOSITE POLARIZATION INTERFERENCE CANCELLATION IN SATELLITE COMMUNICATION	RAMASWAMY, KUMAR
09438464	6564050	150	11/12/1999	METHOD AND APPARATUS FOR COMBINING CORDED AND CORDLESS TELEPHONES FOR TELEPHONE CONFERENCING AND INTERCOM	RAMASWAMY, KUMAR
09469116	Not Issued	161	12/21/1999	SUB-BAND FREQUENCY EQUALIZATION FOR TERRESTRIAL WIRELESS DIGITAL CHANNELS	RAMASWAMY, KUMAR
09470462	Not Issued	161	12/22/1999	METHOD AND APPARATUS FOR SUPPORTING NON-VOICE SIGNAL SUCH AS FACSIMILE AND COMPRESSED VOICE OVER A DIGITAL WIRELESS LINK	RAMASWAMY, KUMAR
09475949	Not Issued	161	12/31/1999	SUBBAND ADPCM VOICE AND DECODING	RAMASWAMY, KUMAR
09476641	6621857	150	12/31/1999	CARRIER TRACKING LOOP FOR DIRECT SEQUENCE SPREAD SPECTRUM SYSTEMS	RAMASWAMY, KUMAR
09581065	Not Issued	161	11/09/2000	Multi-line telephone system for handling incoming caller id messages	RAMASWAMY, KUMAR
09581146	6847627	150	11/13/2000	TIME-DIVISION MULTIPLE ACCESS (TDMA) MULTI-LINE WIRELESS TELEPHONE SYSTEM	RAMASWAMY, KUMAR
09581148	6788924	150	11/16/2000	POWER SAVING PROTOCOL FOR TDMA MULTI-LINE WIRELESS TELEPHONE	RAMASWAMY, KUMAR

				HANDSETS	
09581191	6668178	150	11/16/2000	BATTERY-BACKUP MECHANISM FOR BASE UNIT OF WIRELESS TELEPHONE SYSTEM	RAMASWAMY, KUMAR
09581192	6574769	150	11/15/2000	ENHANCED RANGE/GRACEFUL DEGRADATION FOR DIGITAL WIRELESS TELEPHONE SYSTEM	RAMASWAMY, KUMAR
09581193	6904031	150	11/15/2000	RETRIEVING STORED DATA FROM A BASE UNIT OF A MULTI-LINE WIRELESS PHONE SYSTEM	RAMASWAMY, KUMAR
09581267	6628768	150	11/16/2000	SYSTEM AND METHOD OF RESPONDING TO AN INCOMING CALL WHILE CONFERENCING	RAMASWAMY, KUMAR
09581268	6832082	150	11/10/2000	INITIALIZATION OF HANDSETS IN AMULTI-LINE WIRELESS PHONE SYSTEM FOR SECURE COMMUNICATIONS	RAMASWAMY, KUMAR
09581269	Not Issued	161	11/10/2000	Multi-line wireless telephone system computer interface	RAMASWAMY, KUMAR
09581270	6658242	150	11/09/2000	TDMA WIRELESS TELEPHONE SYSTEM WITH INDEPENDENTLY TRACKED DEMODULATION PARAMETERS	RAMASWAMY, KUMAR
09582385	Not Issued	161	11/09/2000	System and method for providing ip/internet telephony	RAMASWAMY, KUMAR
09745215	Not Issued	161	12/21/2000	Delivering video over an ATM/DSL network using a multi-layered video coding system	RAMASWAMY, KUMAR
09757315	7096007	150	01/09/2001	MOBILE COMMUNICATION SYSTEM HAVING A DIRECT AND BROADCAST LINK	RAMASWAMY, KUMAR
09825232	6834091	150	04/03/2001	TIME SYNCHRONIZATION FOR DATA OVER A POWERLINE MODEM NETWORK	RAMASWAMY, KUMAR
09825233	6577231	150	04/03/2001	CLOCK SYNCHRONIZATION OVER A POWERLINE MODEM NETWORK FOR	RAMASWAMY, KUMAR

				MULTIPLE DEVICES	
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Last Name = RAMASWAMY

First Name = KUMAR

Application#	Patent#	Status	Date Filed	Title	Inventor Name
09837288	7162634	150	04/18/2001	METHOD FOR PROVIDING SECURITY ON A POWERLINE-MODEM NETWORK	RAMASWAMY, KUMAR
09837289	6703923	150	04/18/2001	APPARATUS FOR PROVIDING SECURITY ON A POWERLINE-MODEM NETWORK	RAMASWAMY, KUMAR
09884722	6980651	150	06/19/2001	METHOD FOR USING AN ACCESS CARD TO CREATE A SECURE SUB-NETWORK ON A PUBLIC NETWORK	RAMASWAMY, KUMAR
09893912	7054915	150	06/28/2001	REMOTE SERVICES CONTROL IN AN ATM/DSL SERVICE NETWORK	RAMASWAMY, KUMAR
09908230	7073083	150	07/18/2001	METHOD AND SYSTEM FOR PROVIDING EMERGENCY SHUTDOWN OF A MALFUNCTIONING DEVICE	RAMASWAMY, KUMAR
09980166	Not Issued	164	11/28/2001	METHODS FOR BRIDGING A HAVI SUB-NETWORK AND A UPNP SUB-NETWORK AND DEVICE FOR IMPLEMENTING SAID METHODS	RAMASWAMY, KUMAR
10029645	7428403	150	12/21/2001	BI-DIRECTIONAL COMMUNICATION APPARATUS	RAMASWAMY, KUMAR
10043469	Not Issued	161	01/11/2002	Digital subscriber line feature for enabling plain old telephone service on digital lines in the event of a power failure	RAMASWAMY, KUMAR
10044260	6956933	150	01/11/2002	DIRECTORY DELIVERY SYSTEM AND METHOD FOR A DIGITAL SUBSCRIBER LINE MODEM	RAMASWAMY, KUMAR

10044267	6888832	150	01/11/2002	METHOD AND SYSTEM FOR NOTIFYING CUSTOMER OF VOICEMAIL USING AN ATM SIGNALING CHANNEL FROM AN ATM/DSL HEAD-END NETWORK	RAMASWAMY, KUMAR
10044633	Not Issued	161	01/11/2002	Method and system for voice traffic concentration in an ATM/DSL head-end network	RAMASWAMY, KUMAR
10083865	7401349	150	02/26/2002	SATELLITE TELEVISION SYSTEM GROUND STATION HAVING WIDEBAND MULTI-CHANNEL LNB CONVERTER/TRANSMITTER ARCHITECTURE UTILIZING A FREQUENCY STABILIZED COMMON OSCILLATOR	RAMASWAMY, KUMAR
10084773	Not Issued	41	02/26/2002	Satellite television system ground station having wideband multi-channel LNB converter/transmitter architecture with controlled uplink transmission	RAMASWAMY, KUMAR
10084774	7383018	150	02/26/2002	SATELLITE TELEVISION SYSTEM GROUND STATION HAVING WIDEBAND MULTI-CHANNEL LNB CONVERTER/TRANSMITTER ARCHITECTURE WITH COARSE TUNER IN OUTDOOR UNIT	RAMASWAMY, KUMAR
10089714	7203187	150	04/02/2002	MESSAGING SERVICES FOR DIGITAL SUBSCRIBER LOOP	RAMASWAMY, KUMAR
10089770	7092384	150	04/02/2002	SYSTEM AND METHOD FOR PROVIDING VOICE AND/OR DATA SERVICES	RAMASWAMY, KUMAR
10089772	Not Issued	161	04/02/2002	Components for providing voice and/or data service	RAMASWAMY, KUMAR
10089773	7050546	150	04/02/2002	SYSTEM AND METHOD FOR PROVIDING POTS SERVICES IN DSL ENVIRONMENT IN EVENT OF FAILURES	RAMASWAMY, KUMAR
10107025	7389463	150	03/26/2002	HIERARCHICAL BLOCK CODING FOR A PACKET-BASED COMMUNICATIONS SYSTEM	RAMASWAMY, KUMAR
10107292	Not Issued	161	03/26/2002	Apparatus and methods for measuring multimedia demand and	RAMASWAMY, KUMAR

				for maximizing broadcast channel utilization	
10130589	7274653	150	10/15/2002	HIERARCHICAL QAM TRANSMISSION SYSTEM WITH VARYING GROUPING FACTOR	RAMASWAMY, KUMAR
10144880	Not Issued	89	05/14/2002	Video receiver architecture for digital subscriber line networks	RAMASWAMY, KUMAR
10148155	7073116	150	10/25/2002	ERROR DETECTION/CORRECTION CODING FOR HIERARCHICAL QAM TRANSMISSION SYSTEMS	RAMASWAMY, KUMAR
10148223	7079585	150	10/25/2002	GRAY ENCODING FOR HIERARCHICAL QAM TRANSMISSION SYSTEMS	RAMASWAMY, KUMAR
10148224	7149259	150	10/25/2002	CENTER OF GRAVITY CONTROL FOR HIERARCHICAL QAM TRANSMISSION SYSTEMS	RAMASWAMY, KUMAR
10159191	Not Issued	161	05/31/2002	Request mapping for load balancing	RAMASWAMY, KUMAR
10183081	6954793	150	06/27/2002	PRE-PAID DATA CARD AUTHENTICATION IN A PUBLIC WIRELESS LAN ACCESS SYSTEM	RAMASWAMY, KUMAR
10186006	Not Issued	161	06/28/2002	Configuring alarms of clocks over a local area network	RAMASWAMY, KUMAR
10206683	7127428	150	07/26/2002	DYNAMIC BUSINESS RELATIONSHIP ESTABLISHMENT IN A PUBLIC WIRELESS LAN ENVIRONMENT	RAMASWAMY, KUMAR
10229760	Not Issued	161	08/28/2002	Apparatus, methods and articles of manufacture for wireless communication networks	RAMASWAMY, KUMAR
10243228	6754194	150	09/13/2002	METHOD AND APPARATUS FOR INDICATING THE PRESENCE OF A WIRELESS LOCAL AREA NETWORK BY DETECTING SIGNATURE SEQUENCES	RAMASWAMY, KUMAR
10243905	Not Issued	161	09/13/2002	Method and apparatus for detecting the presence of a wireless local area network using a position location system	RAMASWAMY, KUMAR

10246263	Not Issued	161	09/18/2002	Method and apparatus for indicating the presence of a wireless local area network by detecting energy fluctuations	RAMASWAMY, KUMAR
10297546	Not Issued	41	12/06/2002	Atm multicasting for delivering information over a network	RAMASWAMY, KUMAR
10348927	Not Issued	132	01/22/2003	Mobile communication system	RAMASWAMY, KUMAR
10361395	Not Issued	161	02/10/2003	System and method for tuning radio service	RAMASWAMY, KUMAR
10364133	Not Issued	161	02/11/2003	Apparatus and method for controlling display of video camera signals received over a powerline network	RAMASWAMY, KUMAR
10364134	Not Issued	161	02/11/2003	Apparatus and method for monitoring security camera operation over a powerline network	RAMASWAMY, KUMAR
10372531	Not Issued	161	02/24/2003	Method and apparatus for multicast delivery of information	RAMASWAMY, KUMAR
10424442	7142851	150	04/28/2003	TECHNIQUE FOR SECURE WIRELESS LAN ACCESS	RAMASWAMY, KUMAR
10450800	Not Issued	120	06/16/2003	System and method for transmitting digital video files with error recovery	RAMASWAMY, KUMAR
10479141	Not Issued	161	11/26/2003	Seamless Communications Through Optimal Networks	RAMASWAMY, KUMAR
10484066	6900828	150	01/16/2004	FADE RESISTANT DIGITAL TRANSMISSION AND RECEPTION SYSTEM	RAMASWAMY, KUMAR
10484567	Not Issued	61	01/22/2004	System and method for broadcast of independently encoded signals on atsc channels	RAMASWAMY, KUMAR
10486400	Not Issued	161	01/15/2004	Robust reception of digital broadcast transmission	RAMASWAMY, KUMAR
10498329	Not Issued	161	06/10/2004	System and method for downloading data using a proxy	RAMASWAMY, KUMAR
10498402	Not Issued	41	06/10/2004	Apparatus and methods for delayed network information transfer	RAMASWAMY, KUMAR
10498403	Not Issued	93	06/10/2004	APPARATUS AND METHODS FOR INFORMATION TRANSFER USING A CACHED SERVER	RAMASWAMY, KUMAR
10498636	Not Issued	71	06/14/2004	Videoconference application user interface with messaging system	RAMASWAMY, KUMAR

10498739	Not Issued	40	10/26/2004	Server invoked time scheduled videoconference	RAMASWAMY, KUMAR
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Last Name = RAMASWAMY

First Name = KUMAR

Application#	Patent#	Status	Date Filed	Title	Inventor Name
10499921	Not Issued	30	01/11/2005	Videoconference session switching from unicast to multicast	RAMASWAMY, KUMAR
10499923	Not Issued	71	08/09/2005	Quality of service setup on a time reservation basis	RAMASWAMY, KUMAR
10507862	Not Issued	133	09/16/2004	Videoconference system architecture	RAMASWAMY, KUMAR
10511641	Not Issued	61	10/18/2004	Wireless local area network (wlan) as a public land mobile network for wlan/telecommunications system interworking	RAMASWAMY, KUMAR
10511647	7139966	150	10/18/2004	DIVERSITY SCHEME FOR ERROR CONTROL CODING IN A SYSTEM WITH PRIORITIZED DATA	RAMASWAMY, KUMAR
10512525	Not Issued	30	10/26/2004	Tuner input filter with electronically adjustable response for adapting to antenna characteristic	RAMASWAMY, KUMAR
10514311	Not Issued	61	11/12/2004	Seamless public wireless local area network user authentication	RAMASWAMY, KUMAR
10518995	Not Issued	71	12/21/2004	Ever-decreasing network qos requirements for stored video streaming in a mobile wireless interworking environment	RAMASWAMY, KUMAR
10518997	7133486	150	12/21/2004	EVER-INCREASING QUALITY FOR STORED VIDEO STREAMING IN A MOBILE WIRELESS INTERWORKING ENVIRONMENT	RAMASWAMY, KUMAR
10524656	Not	25	09/26/2005	Watermarking digital data at a	RAMASWAMY,

	Issued			user device	KUMAR
10524906	Not Issued	30	02/17/2005	Combined video decoder and watermark creator	RAMASWAMY, KUMAR
10527125	Not Issued	61	03/08/2005	Video on demand server system and method	RAMASWAMY, KUMAR
10541930	Not Issued	41	07/11/2005	Method and an apparatus for mapping an mpeg transport stream into ip packets for wlan broadcast	RAMASWAMY, KUMAR
10542972	Not Issued	30	07/21/2005	Robust mode staggercasting user controlled switching modes	RAMASWAMY, KUMAR
10542976	Not Issued	30	07/21/2005	Robust mode staggercasting without artifacts	RAMASWAMY, KUMAR
10543043	Not Issued	30	07/21/2005	Robust mode staggercasting with adjustable delay offset	RAMASWAMY, KUMAR
10543044	Not Issued	30	07/21/2005	Robust mode staggercasting	RAMASWAMY, KUMAR
10543045	Not Issued	30	07/21/2005	Robust mode staggercasting storing content	RAMASWAMY, KUMAR
10543368	Not Issued	30	07/26/2005	Robust mode staggercasting with multiple delays for multi-resolution signals	RAMASWAMY, KUMAR
10543481	Not Issued	71	07/26/2005	Robust mode staggercasting fast channel change	RAMASWAMY, KUMAR
10543482	Not Issued	30	07/26/2005	Robust mode staggercasting video quality enhancement	RAMASWAMY, KUMAR
10543483	Not Issued	30	07/26/2005	Robust mode staggercasting reduced resolution video for mobile receiver	RAMASWAMY, KUMAR
10548891	Not Issued	41	09/12/2005	Whole-House Video Network	RAMASWAMY, KUMAR
10550964	Not Issued	41	09/26/2005	Secure roaming between wireless access points	RAMASWAMY, KUMAR
10553648	Not Issued	41	10/14/2005	Techniques for offering seamless accesses in enterprise hot spots for both guest users and local users	RAMASWAMY, KUMAR
10554580	Not Issued	93	10/27/2005	ADAPTIVE SOFT DEMODULATION FOR RECEPTION OF DISTORTED SIGNALS	RAMASWAMY, KUMAR
10554936	Not Issued	30	10/31/2005	Method and apparatus for synchronizing a multi-level modulation signal	RAMASWAMY, KUMAR

10556544	Not Issued	30	11/14/2005	Unified receiver for layered and hierarchical modulation systems	RAMASWAMY, KUMAR
10564253	Not Issued	61	01/10/2006	Technique for video broadcasting in wireless lan	RAMASWAMY, KUMAR
10567271	Not Issued	30	02/06/2006	Method and device for securing content delivery over a communication network via content keys	RAMASWAMY, KUMAR
10567946	Not Issued	30	02/10/2006	Methods and Apparatus For Hierarchical Modulation Using Radial Constellation	RAMASWAMY, KUMAR
10590582	Not Issued	30	08/24/2006	Multi-stage media compression technique for power and storage efficiency	RAMASWAMY, KUMAR
11338160	Not Issued	161	01/24/2006	Mobile communication system	RAMASWAMY, KUMAR
11596949	Not Issued	30	09/20/2007	Methods And Apparatus Managing Access To Virtual Private Network For Portable Devices Without Vpn Client	RAMASWAMY, KUMAR
11662565	Not Issued	25	03/12/2007	Low Density Parity Check (Ldpc) Decoder	RAMASWAMY, KUMAR
11716921	Not Issued	30	03/12/2007	Robust reception of digital broadcast transmission	RAMASWAMY, KUMAR
11791776	Not Issued	30	05/29/2007	Network Managed Channel Change In Digital Networks	RAMASWAMY, KUMAR
11791805	Not Issued	20	05/29/2007	Multiple Flows For Incremental Forward Error Correction Mechanisms	RAMASWAMY, KUMAR
11792009	Not Issued	25	05/30/2007	Multiple Closed Captioning Flows And Customer Access In Digital Networks	RAMASWAMY, KUMAR
11883040	Not Issued	25	07/25/2007	System Architecture and Method for Scheduled Downloading Services	RAMASWAMY, KUMAR
11887304	Not Issued	19	01/01/0001	Method and Apparatus for Improving Reception of Wireless Signals Using Spatial Redundancy	RAMASWAMY, KUMAR
11887307	Not Issued	19	01/01/0001	Method and Apparatus for Providing Robust Reception in a Wireless Communications System	RAMASWAMY, KUMAR
12224680	Not Issued	19	01/01/0001	Centralized Scheduler for Content Delivery Network	RAMASWAMY, KUMAR

60012339	Not Issued	159	02/27/1996	TIMING RECOVERY SYSTEM FOR A DIGITAL VIDEO SIGNAL PROCESSOR	RAMASWAMY, KUMAR
60024371	Not Issued	159	08/01/1996	MULTIPOINT MICROWAVE DISTRIBUTION SYSTEM AND PROGRAM GUIDE	RAMASWAMY, KUMAR
60051265	Not Issued	159	06/30/1997	CROSS POLARIZATION INTERFERENCE CANCELLATION FOR SATELLITE	RAMASWAMY, KUMAR
60056487	Not Issued	159	08/21/1997	SYSTEM FOR FORMATTING AND PROCESSING PROGRAM DATA AND PROGRAM GUIDE INFORMATION IN DIFFERENT FORMATS FOR COMMUNICATION NETWORKS	RAMASWAMY, KUMAR
60069342	Not Issued	159	12/12/1997	POWER SAVING PROTOCOL FOR TDMA (TIME DIVISION MULTIPLE ACCESS) MULTIPLE-LINE CORDLESS PHONE LINKS	RAMASWAMY, KUMAR
60069343	Not Issued	159	12/12/1997	MULTI-HANDSET EXPANSION FOR TDMA (TIME DIVISION MULTIPLE ACCESS) MULTI-LINE CORDLESS PHONE	RAMASWAMY, KUMAR
60069344	Not Issued	159	12/12/1997	MECHANISM TO REGULATE AND RESPOND TO INCOMING TYPE II CALLER ID MESSAGES FROM A CENTRAL OFFICE TO THE BASE STATION OF A MULTI-LINE MULTI-HANDSET CORDED OR CORDLESS PHONE CUSTOMER PREMISES EQUIPMENT	RAMASWAMY, KUMAR

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Application#	Patent#	Status	Date Filed	Title	Inventor Name
60069345	Not Issued	159	12/12/1997	TIME DIVISION MULTIPLE ACCESS (TDMA) DEMODULATOR ARCHITECTURE	RAMASWAMY, KUMAR
60069541	Not Issued	159	12/12/1997	AUTOMATIC CALLBACK FEATURE IN BUSINESS PHONE SYSTEMS	RAMASWAMY, KUMAR
60069552	Not Issued	159	12/12/1997	BATTERY-BACKUP MECHANISM FOR MULTILINE BUSINESS CORDLESS PHONES	RAMASWAMY, KUMAR
60069554	Not Issued	159	12/12/1997	ENHANCED RANGE/GRACEFUL DEGRADATION FOR DIGITAL CORDLES TELEPHONES	RAMASWAMY, KUMAR
60069555	Not Issued	159	12/12/1997	RETRIEVING STORED INFORMATION FROM THE BASE STATION OF A CORDLESS PHONE SYSTEM	RAMASWAMY, KUMAR
60069568	Not Issued	159	12/12/1997	MULTI-LINE CORDLESS TELEPHONE COMPUTER INTERFACE	RAMASWAMY, KUMAR
60069684	Not Issued	159	12/12/1997	INITIALIZATION OF HANDSETS IN A MULTI-LINE CORDLESS PHONE SYSTEM FOR SECURE COMMUNICATIONS	RAMASWAMY, KUMAR
60078643	Not Issued	159	03/19/1998	METHOD TO COMBINE OSD PACKET STREAM WITH BROADCAST PACKET STREAM IN DIGITAL VCR TO HDTV LINK	RAMASWAMY, KUMAR
60138232	Not	159	06/09/1999	CODE MAPPING IN A	RAMASWAMY,

	Issued			TRELLIS DECODER	KUMAR
60145690	Not Issued	159	07/26/1999	PROGRAMMABLE DIGITAL SIGNAL COMBINER FOR TELEPHONE CONFERENCING AND INTERCOM	RAMASWAMY, KUMAR
60145691	Not Issued	159	07/26/1999	SYSTEM FOR SUPPORTING ANALOG FACSIMILE AND COMPRESSED VOICE OVER A DIGITAL WIRELESS LINK	RAMASWAMY, KUMAR
60157706	Not Issued	159	10/05/1999	SIMPLIFIED MULTI-LINE DIGITAL TELEPHONY AND DATA SERVICES OVER A DIGITAL SUBSCRIBER LOOP (DSL) SERVICE	RAMASWAMY, KUMAR
60167021	Not Issued	159	11/23/1999	UNEQUAL ERROR PROTECTION HIERARCHICAL QAM	RAMASWAMY, KUMAR
60167022	Not Issued	159	11/23/1999	GAIN CONTROL MECHANISM FOR HIERARCHICAL MULTI-AMPLITUDE MODULATIONS	RAMASWAMY, KUMAR
60167023	Not Issued	159	11/23/1999	USE OF THE GROUPING FACTOR IN A HIERARCHICAL BACKWARD COMPATIBLE HIGHER ORDER MODULATION SYSTEM	RAMASWAMY, KUMAR
60167024	Not Issued	159	11/23/1999	BIT-TO-SYMBOL MAPPING GRAY ENCODING FOR IMPROVED PERFORMANCE IN HIERARCHICAL QAM MODULATION	RAMASWAMY, KUMAR
60210257	Not Issued	159	06/08/2000	Enhanced services using digital subscriber line (DSL) technology	RAMASWAMY, KUMAR
60259718	Not Issued	159	01/04/2001	Pre-programmable internet audio terminal and a means of simplifying the user interface	RAMASWAMY, KUMAR
60259721	Not Issued	159	01/04/2001	Multifunction internet radio alarm clock with internal powerline modem	RAMASWAMY, KUMAR
60259723	Not Issued	159	01/04/2001	Mechanism for notifying user of the status of the network connection for an internet radio	RAMASWAMY, KUMAR

				device connected to the internet via a digital home network	
60294117	Not Issued	159	05/29/2001	Concatenated block coding for a packet-based communications system	RAMASWAMY, KUMAR
60294402	Not Issued	159	05/30/2001	Multi-network mobile communication system	RAMASWAMY, KUMAR
60305243	Not Issued	159	07/13/2001	Digital audio/video broadcast on cellular systems	RAMASWAMY, KUMAR
60306565	Not Issued	159	07/19/2001	Data architectures for quality of service in wireless lossy channels	RAMASWAMY, KUMAR
60306586	Not Issued	159	07/19/2001	Broadcast compatible mobile VSB reception system	RAMASWAMY, KUMAR
60307201	Not Issued	159	07/23/2001	Broadcast of MPEG-4 on ATSC terrestrial channels	RAMASWAMY, KUMAR
60326264	Not Issued	159	10/01/2001	Bidding based multimedia service reservation system and pricing model	RAMASWAMY, KUMAR
60329486	Not Issued	159	10/15/2001	System for transmitting digital video files with error recovery via a back channel	RAMASWAMY, KUMAR
60340547	Not Issued	159	12/13/2001	Location dependent storage medium	RAMASWAMY, KUMAR
60340549	Not Issued	159	12/13/2001	Methods of scheduling downloads for content delivery services	RAMASWAMY, KUMAR
60340551	Not Issued	159	12/13/2001	Caching servers for delayed uploading/downloading of servers	RAMASWAMY, KUMAR
60340661	Not Issued	159	12/13/2001	Mobile proxy server for downloading / uploading services	RAMASWAMY, KUMAR
60341671	Not Issued	159	12/15/2001	Quality of service setup on a time reservation basis	RAMASWAMY, KUMAR
60341800	Not Issued	159	12/15/2001	Videoconference session switching from unicast to multicast	RAMASWAMY, KUMAR
60341801	Not Issued	159	12/15/2001	Videoconference application user interface	RAMASWAMY, KUMAR
60341819	Not Issued	159	12/15/2001	Server invoked time scheduled video conference	RAMASWAMY, KUMAR
60353525	Not Issued	159	02/01/2002	Messaging protocol for an alarm clock-to-PC link using digital	RAMASWAMY, KUMAR

				home networking	
60365342	Not Issued	159	03/18/2002	Method for GPS-based wireless LAN detection for mobile devices	RAMASWAMY, KUMAR
60365345	Not Issued	159	03/18/2002	Method for user-initiated disabling of the LAN-scanning capability on a mobile device	RAMASWAMY, KUMAR
60365347	Not Issued	159	03/18/2002	LANscanner -- a simple method to detect the presence of wireless LANs	RAMASWAMY, KUMAR
60366331	Not Issued	159	03/20/2002	Videoconference system architecture	RAMASWAMY, KUMAR
60373197	Not Issued	159	04/17/2002	WLAN as a logical PLMN for WLAN-UMTS interworking	RAMASWAMY, KUMAR
60374030	Not Issued	159	04/19/2002	Diversity scheme for error control coding in a system with prioritized data	RAMASWAMY, KUMAR
60376128	Not Issued	159	04/26/2002	Tuner input filter with electronically adjustable response for adapting to antenna characteristic	RAMASWAMY, KUMAR
60377912	Not Issued	159	05/03/2002	Method and apparatus for multicast delivery of information	RAMASWAMY, KUMAR
60378029	Not Issued	159	05/13/2002	Seamless public wireless LAN user authentication using web browser and IEEE 802.1X	RAMASWAMY, KUMAR
60378030	Not Issued	159	05/13/2002	Dynamic business relationship establishment in a public wireless LAN environment	RAMASWAMY, KUMAR
60378031	Not Issued	159	05/13/2002	Pre-paid data card authentication in a public wireless LAN access system	RAMASWAMY, KUMAR
60390810	Not Issued	159	06/21/2002	Ever-decreasing network QoS requirement for stored video streaming in a mobile wireless interworking environment	RAMASWAMY, KUMAR
60390841	Not Issued	159	06/21/2002	Ever-increasing quality for stored video streaming in a mobile wireless interworking environment	RAMASWAMY, KUMAR

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First Name = KUMAR

Application#	Patent#	Status	Date Filed	Title	Inventor Name
60404884	Not Issued	159	08/21/2002	Watermark creation at user devices with license information	RAMASWAMY, KUMAR
60409645	Not Issued	159	09/10/2002	Windowing VBR video on demand server	RAMASWAMY, KUMAR
60439093	Not Issued	159	01/09/2003	Mapping a transport stream into IP packets for WLAN broadcasting services	RAMASWAMY, KUMAR
60443672	Not Issued	159	01/28/2003	Robust mode staggercasting	RAMASWAMY, KUMAR
60453507	Not Issued	159	03/11/2003	Digital home networking	RAMASWAMY, KUMAR
60453615	Not Issued	159	03/11/2003	Advanced modulation, coding and compresion	RAMASWAMY, KUMAR
60453792	Not Issued	159	03/11/2003	Advanced modulation, coding, and compression	RAMASWAMY, KUMAR
60458189	Not Issued	159	03/27/2003	Secure wireless L A N infrasture for seamless roaming with smart gateways and simple access points	RAMASWAMY, KUMAR
60463060	Not Issued	159	04/15/2003	Techniques for offering seamless accesses in enterprise hot spots for both guest users and local users	RAMASWAMY, KUMAR
60467946	Not Issued	159	05/05/2003	Advanced modulation, pre-compensation and coding schemes for hierarchical modulation systems	RAMASWAMY, KUMAR
60471167	Not Issued	159	05/16/2003	Unified receivers for layered and hierarchical modulation	RAMASWAMY, KUMAR
60494836	Not Issued	159	08/13/2003	Security framework in a media content delivery system with hybrid access networks	RAMASWAMY, KUMAR

60496470	Not Issued	159	08/20/2003	Methods and apparatus for hierarchical modulations with radial constellation	RAMASWAMY, KUMAR
60529493	Not Issued	159	12/15/2003	Using packet processing capabilities of network elements for statistical multiplexing of content	RAMASWAMY, KUMAR
60571742	Not Issued	159	05/17/2004	Managed VPN for portable devices in a wireless LAN environment	RAMASWAMY, KUMAR
60615418	Not Issued	159	10/01/2004	Implementation of LDPC decoder for DVB-S2	RAMASWAMY, KUMAR
60633473	Not Issued	159	12/06/2004	Multiple closed captioning flows and customer access in DSL networks	RAMASWAMY, KUMAR
60633475	Not Issued	159	12/06/2004	Channel change refinement	RAMASWAMY, KUMAR
60633477	Not Issued	159	12/06/2004	Multiple flows for incremental forward error correction mechanisms	RAMASWAMY, KUMAR
60665995	Not Issued	159	03/29/2005	Method and apparatus for improving reception of wireless signals using spatial redundancy	RAMASWAMY, KUMAR
60666077	Not Issued	159	03/29/2005	Method and apparatus for providing robust reception in a wireless communications system	RAMASWAMY, KUMAR
60680697	Not Issued	159	05/13/2005	DIRECTV PMP service extension	RAMASWAMY, KUMAR
60725794	Not Issued	159	10/12/2005	Cable remodulator	RAMASWAMY, KUMAR
60725795	Not Issued	159	10/12/2005	Band switchable taps and amplifier for use in a cable system	RAMASWAMY, KUMAR
60725798	Not Issued	159	10/12/2005	Frequency selective cable reflector	RAMASWAMY, KUMAR
60799150	Not Issued	159	05/10/2006	Vestigial sideband (VSB) protocol for mobile reception	RAMASWAMY, KUMAR
60799625	Not Issued	159	05/11/2006	Protocol for mobile reception and other environments	RAMASWAMY, KUMAR
60817787	Not Issued	159	06/30/2006	Delivery of personalized mosaic view over an interactive network	RAMASWAMY, KUMAR
60832830	Not	159	07/24/2006	Method, apparatus and system	RAMASWAMY,

	Issued			for secure distribution of audiovisual content	KUMAR
60928566	Not Issued	159	05/10/2007	Method and apparatus for fault detection in head-end communication	RAMASWAMY, KUMAR
60966431	Not Issued	159	08/28/2007	Staggercasting with no channel change delay	RAMASWAMY, KUMAR
60967917	Not Issued	159	09/07/2007	ATSC M/H synchronization system	RAMASWAMY, KUMAR
60998945	Not Issued	20	10/15/2007	Application layer for delivery of media services to mobile and handheld devices	RAMASWAMY, KUMAR
60998946	Not Issued	20	10/15/2007	Delivery of media services to mobile and handheld devices	RAMASWAMY, KUMAR
61007140	Not Issued	20	12/11/2007	Transcoding within the distribution chain	RAMASWAMY, KUMAR

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